

Data Mining APP for Preschool Teachers' Information Literacy Based on Computer-Generated Intelligence Test System

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Abstract: In order to meet the needs of smart campus construction and mobile learning, a smart classroom test system based on smart mobile terminals is designed. According to the application characteristics of different user groups of the test system, functional modules for teachers and students are designed. Teachers' information literacy has received more and more attention. As an integral part of educational informatization, preschool education informatization, whether it has good information literacy has become the standard for measuring the group of preschool teachers in the new era. The comprehensive improvement of preschool education teachers' information literacy requires the construction of preschool in the perspective of U-G-S. The long-term improvement mechanism of education teachers' information literacy, from the perspective of data mining, according to the individual's many years of teaching and practical experience, as well as the characteristics of pre-school education teachers' information literacy, the research object is divided into three parts.

Keywords: Data Mining APP, Preschool Teachers' Information, Computer-Generated Intelligence

1. INTRODUCTION

The Outline of the National Medium- and Long-Term Education Reform and Development Plan (2010-2020) proposes to speed up the process of education informatization, focus on strengthening the information infrastructure in rural schools, and continue to promote distance education in rural schools, so that teachers and students in rural and remote areas can enjoy high-quality educational resources [1]. With the help of the era of education informatization 2.0, the development of preschool education informatization requires not only the construction of a high-quality informatization digital big resource data platform for preschool education, but also the strengthening of preschool education informatization software and hardware supporting facilities. The rapid development of intelligent mobile terminal equipment has become popular [2].

At present, mobile learning has been integrated into smart education, which is an important development trend of online learning through the Internet. Preschool education is the cornerstone of the entire education building [3], and its informatization plays a powerful role in promoting the entire education informatization. Education informatization is a systematic project. With a good software and hardware environment, teachers have high information literacy, which is of great significance to the advancement of educational informatization [4].

Strengthen the application of information technology, improve the level of teachers' application of information technology, update teaching concepts, improve teaching methods, and improve teaching effects [5]. In 2010, Hu Jintao emphasized at the National Education Work Conference that education modernization should be driven by education informatization, and the construction of educational information infrastructure should be accelerated [6]. The more important task is to comprehensively improve the information literacy of preschool education teachers and promote preschool education teachers to actively keep up [7]. The pace of the information age, adapting to and effectively using

artificial intelligence technology to actively carry out various educational and teaching activities to cultivate students with excellent professional ability and rapid thinking ability, not only requires subject professional knowledge [8].

On the basis of theory and practice, it is also necessary to form one's own physical education wisdom through continuous accumulation. Physical education teachers should promote their transformation from traditional teaching to intelligent teachers in order to serve and teach better [9]. While "Internet +" brings great opportunities to education, it also brings great challenges. It can be said to be a double-edged sword. What we need to do is to promote strengths and avoid weaknesses, seek advantages and avoid disadvantages, and try to play its positive role as much as possible and reduce its negative role [10], to ensure that by 2020, an education informatization system covering all types of schools at all levels in urban and rural areas will be basically built, and promote the popularization and sharing of high-quality educational resources [11].

[12] Preschool teachers in the new era are not only the enlighteners of children's intelligence and emotions, but also the guides of children's cultivation on the road of informatization. Improve the informatization level of preschool education, focus on cultivating children's early information literacy, and prepare children for the future. Be well prepared to face the challenges of the AI era. College students are highly dependent on mobile phones and have a common demand for mobile learning [13].

With the construction of digital campuses, teachers' management of students should also be transformed from traditional methods to online intelligence. For information literacy, the popular understanding is the search, processing, and processing of information [14], combined with one's own knowledge structure, internalizing the information, and putting forward one's own views. This kind of literacy and ability is particularly important in the Internet age, and it is also an important quality for kindergarten teachers to develop towards professionalism [15]. The research on the teaching

wisdom of physical education teachers under the background of "Internet +" can be divided into theoretical significance and practical significance [16].

The theoretical significance is that, first, it can enrich the related theories of physical education teaching wisdom, so as to better guide practice; second, it is conducive to the development and construction of physical education teachers' professional concepts [17]. They use mobile phones to watch videos, send WeChat, and swipe Weibo, etc., but it is undeniable that students can also search for learning materials through mobile phones, use some educational APPs to learn, record video, take pictures, etc. Smartphones bring great challenges to traditional classrooms, but also bring new ideas to traditional classrooms [18].

2. THE PROPOSED METHODOLOGY

2.1 The Computer Generated Intelligence Test System

Most of the IT teachers talked about the cultural identity between the development of individuals and schools. The individual value orientation of teachers is consistent with the common value orientation of the school. It is relatively low, and the level of configuration is relatively basic, especially in private preschool education institutions, and some preschool education teachers have not even heard of smart classrooms.

The development purpose of the digital campus. The smart classroom test system (referred to as the test system) is to optimize teachers' attendance and assessment management methods for students, facilitate students' self-management of online learning, and make teachers' teaching management and students' learning more efficient and convenient. Data mining has been successfully applied in some fields, and its application in high-level education management has been paid more and more attention, not only in normal colleges and universities, but also in many large companies. The analysis method combs and analyzes the collected literature, summarizes the connotation, characteristics and influencing factors of physical education teachers' teaching wisdom. With the development of information technology and the continuous emergence of massive data, human beings have entered the era of big data.

Big data has five basic characteristics: large capacity, which refers to the quantity of data; variety, which refers to the type of data; high speed, which refers to the speed of data acquisition; and strong authenticity, which refers to the quality of data. The Songjiang District Education Bureau organized a ladder project for teacher development. The development is divided into three levels: rookies in the teaching field, famous teachers in disciplines, and chief teachers. Among them, the proportion of famous teachers in information technology disciplines has increased year by year. Various schools have also carried out similar self-training projects.

2.2 The Information Literacy of Preschool Teachers

It is difficult to create a realistic situation when teaching in an intuitive way such as playing games. Multimedia technology can process graphics, text, sound, and images from all angles to integrate them into one, with vivid images, strong information stimulation and cross-time and space. Features. Information literacy of preschool teachers. With the development of information technology in the information

society and the in-depth advancement of education informatization, the life and work of preschool teachers.

Learning is under the informatization atmosphere of big data, mobile Internet, and artificial intelligence. The information awareness and attitude of preschool teachers and the level of information ethics have been significantly improved. Course management involves grades, tests, and course resources. The performance assessment management is divided into the assessment of the usual grades and the final grades, and the test management is divided into the management of the usual tests and the final test. In the field of preschool education management, data mining is still a brand-new topic. This paper will use the data mining method to analyze the information literacy of the research object - kindergarten teachers in the process of using information technology.

"Internet + education" is different from the early education informatization. By grafting Internet channels in traditional education, education informatization is only a transfer of knowledge, and the form of education has not changed. "There are essential differences, but education informatization has promoted the emergence and development of "Internet + education" to a certain extent. After receiving the pre-class preview materials pushed by the teacher, students can conduct independent learning according to their own time conditions and complete the preview tasks within the specified time. The pre-class preview of the smart classroom is controllable, whether the students have preview.

2.3 The Data Mining APP for Preschool Teachers' Information Literacy

As a result, many children do not want to go to kindergarten. Piaget believes that "children are active people, and what they teach must be able to arouse the child's interest and meet his needs in order to effectively promote his development". Construct a community for the improvement of information literacy education for preschool teachers. The U-G-S trinity teacher education model emphasizes that in the process of cooperation, local governments, universities, and preschool education institutions have the same goals, common responsibilities, benefit sharing, and resource optimization on student pages. Responsive access for smart mobile end devices.

HTML5, CSS3, JavaScript and jQuery technologies are applied in page content presentation and interactive effect design. Through the research and analysis of the above three aspects, we hope to find out the subjective and objective factors that affect the improvement of teachers' information literacy, so as to guide the formulation of teachers' information technology training programs, and also help preschool teachers to formulate pre-service teaching plans and Adjustment of training goals. The system application is divided into two parts: student front-end access and teacher background management.

Content accessed by students, including homepage, coursework, login, online testing, grade inquiries, assignment submissions, and more. Back-office management of teachers, on the one hand, because the kindergarten managers think that it is not necessary to change the existing teaching mode and add information technology equipment, on the other hand, due to the limited funds, most kindergartens have more than enough resources, and there is no way to purchase teaching equipment. The investment, resulting in softness between kindergartens, is only provided for teachers to realize the management of students, courses, and tests, etc. In terms of

technical implementation, the access of students is based on mobile devices.

3. CONCLUSIONS

It is a new goal of early childhood education in the information society to lay the foundation for cultivating modern information-based talents comprehensively and efficiently with information-based education. Among them, the cultivation and improvement of preschool teachers' information literacy has become an important content. The student terminal is developed into a responsive web page, which can be accessed directly through the browser without installation, does not occupy equipment space, and is convenient to use. The realization of each functional module adopts the currently popular Bootstrap framework, Layup framework, HTML5, Css3, JavaScript and jQuery and other technologies to design data mining models, use data mining tools, and use association rules and clustering methods for different mining problems.

4. REFERENCES

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